

commands

Entrust Authority(TM)
Command Line Utility
Release: 6.1
Publication Date: June 2007

The Command Line Utility is for users who regularly use Microsoft Windows Command Prompt or UNIX prompt, or for users who develop automated tasks with batch files or shell scripts.

This program allows you to view help information, and to perform secure operations, decrypt operations, and user operations. It also allows you to create a Personal Address Book(PAB) and manipulate recipient lists.

General information

This text file describes the syntax for the Command Line Utility commands.

Command Line Utility command options are shown with square brackets. For example, [-encrypt].

For parameters that contain spaces such as C:\Program Files\Entrust\John Smith.epf, you must use double quotation marks. For example,

"C:\Program Files\Entrust\John Smith.epf".

NOTE: For a roaming profile, do not include the directory or ".epf". For example, "John Smith."

Help operations

This section describes the help operations that are part of the Command Line Utility.

entcmd help [-secure] [-decrypt] [-user] [-addressbook]

commands

`[-secure]`

Displays help information for the secure operations.

`[-decrypt]`

Displays help information for the decrypt operations.

`[-user]`

Displays help information for the user operations.

`[-addressbook]`

Displays help information for the addressbook operations.

Secure operations

This section describes the encryption or signing operations that are part of the Command Line Utility.

```
entcmd secure [-ascii] [-compress] [-delete] [-encrypt] [-overwrite] [-sign] [-timestamp] [-algorithm algorithm-name] [-epf profile-name] [-directory output-directory] [-offline] [-list recipient-list] [-dn dn] [-output output-file-name] [filename(s)...]
```

`[-ascii]`

Privacy Enhanced Message (PEM) printable encoding is used when producing the output file.

`[-compress]`

Archive stores the processed data in compressed form.

`[-delete]`

Plaintext source is deleted after it has been processed.

NOTE:

Plaintext source files are not deleted if there are errors

commands
during the encryption or signing operation.

`[-encrypt]`

Plaintext source is encrypted into Entrust Archive Format using the specified profile's encryption key.

NOTE:

Specify at least one of `-encrypt` or `-sign`.

`[-overwrite]`

An archive filename that already exists will be overwritten with a new archive of the same filename.

`[-sign]`

Plaintext source is digitally signed using the specified profile's signing key.

NOTE:

Specify at least one of `-encrypt` or `-sign`.

`[-timestamp]`

Timestamp server will digitally sign the plaintext source.

NOTE:

Timestamping is not available in offline mode.

`[-algorithm algorithm-name]`

When the `-algorithm` option identifier is specified with a valid algorithm name, the plaintext source is encrypted with the mathematical formula pertaining to the specified algorithms.

The command line utility supports the following algorithm names:

DES	Specifies a 56-bit DES key
CAST-128	Specifies a 128-bit CAST key.

commands	
CAST-80	Specifies an 80-bit CAST key.
CAST-64	Specifies a 64-bit CAST key.
CAST-40	Specifies a 40-bit CAST key.
TripleDES	Specifies triple DES.
RC2-128	Specifies a 128-bit RC2 Compatible key.
RC2-40	Specifies a 40-bit RC2 Compatible key.
IDEA	Specifies a 128-bit IDEA key.
AES	Specifies a 256-bit AES key.

If the `-algorithm` option identifier is not specified, the plaintext source is encrypted with the CAST-128 algorithm.

`[-epf profile-name]`

Specify an `.epf` profile when executing any command line operation using `-epf` followed by the full profile filename and path.

`[-directory output-directory]`

Encrypted and/or signed archives will be placed in the directory specified.

Archives will be placed in the current directory as determined by the operating system, if `-directory` is not specified.

NOTE:

When `-output` is specified with a valid path and filename and `-directory` is not specified, archive is placed in the location specified by the path and filename.

NOTE:

When `-output` is specified with path information and `-directory` is also specified, path information specified by `-output` is ignored and the output filename and output-directory are concatenated.

`[-offline]`

Encryption and/or signing operations are performed in offline mode.

commands

NOTE:

In offline mode, the only accessible data sources are the Personal Address Book and certificate data caches.

[-list recipient-list-name]

Secure operation is performed for each valid member of the recipient list whose certificate is accessible.

NOTE:

The -list and -dn option identifiers are mutually exclusive. You can specify one or the other, but not both in the same command line.

[-dn dn]

Secure operation is performed for the valid domain name(dn) provided that the certificate associated with the specified dn is accessible.

FREQUENCY:

Multiple option identifiers per command line, each of which are followed by a valid dn.

[-output output-file-name]

All files listed on the command line will be converted into a single archive specified by output-file-name.

NOTE:

When -output is not specified, each of the files listed on the command line will be converted into its own archive.

NOTE:

When output-file-name includes a path, the archive will be placed in the location specified by that path. When the output-file-name does not include a path and -directory is not specified, the archive will be placed in the current directory as determined by the operating system. When -directory is specified, the archive will be placed in that location.

commands

[Filename(s)...]

You must specify at least one filename for each secure operation you perform.

Filenames

are entered at the end of the command line with no option identifier "-".

FREQUENCY: Multiple files per command line, each of which contain a valid path to a plaintext file.

Decrypt operations

This section describes the decryption or verification operations that are part of the Command Line Utility.

```
entcmd decrypt [-delete] [-overwrite] [-verbose] [-epf profile-path] [-offline] [-timestamp] [-directory output-directory] [filename(s)...]
```

[-delete]

Encrypted or signed source is securely deleted after it has been processed.

[-overwrite]

Plaintext filenames that already exist will be overwritten with new plaintext files of the same filenames.

[-verbose]

Encryption or signing information is shown for each decrypted or verified file.

[-timestamp]

Timestamp information is shown for each decrypted or verified file.

commands

`[-epf profile-path]`

Specify an .epf profile when executing any command line operation using `-epf` followed by the full profile filename and path.

`[-offline]`

Decryption or verification operations are performed in offline mode.

`[-directory output-directory]`

Decrypted or verified plaintext files will be placed in the directory specified.

NOTE:

When `-directory` is not specified, decrypted or verified plaintext files will be placed in the current directory as determined by the operating system.

`[Filename(s)...]`

You must specify at least one filename for each secure operation you perform.

Filenames

are entered at the end of the command line with no option identifier `"-"`.

FREQUENCY:

Multiple files per command line, each of which contain a valid path to a plaintext file.

User operations

This section describes the user operations that are part of the Command Line Utility. This includes the ability to create or recover users.

`entcmd user [-create] [-recover] [-ref ref-number] [-auth auth-code] [-epf profile-path]`

commands

`[-create]`

Creates a new Entrust profile.

NOTE:

Specify `-create`, `-recover`, `-show`, or `-password`, but not more than one of each.

`[-recover]`

Recovers an existing Entrust profile.

NOTE:

Specify `-create`, `-recover`, `-show`, or `-password`, but not more than one of each.

`[-ref ref-number]`

Specifies the reference number provided by an Entrust Administrator for a profile creation or recovery operation.

`[-auth auth-code]`

Specifies the authorization code provided by an Entrust Administrator for a profile creation or recovery operation.

`[-epf profile-path]`

Indicates where the new or recovered profile should be stored when given a valid path.

Show user information:

`entcmd user [-show] [-epf profile-path]`

`[-show]`

Shows information about the profile specified by `profile-path`.

NOTE:

Specify `-create`, `-recover`, `-show`, or `-password`, but not more than one of each.

commands

`[-epf profile-path]`

When executing the `-show` command line operation, you must specify an `.epf` profile using

`-epf` followed by the full profile filename and path.

Change user password:

`entcmd user [-password] [-epf profile-path]`

`[-password]`

Changes the profile password for the profile specified by `profile-path`.

NOTE:

Specify `-create`, `-recover`, `-show`, or `-password`, but not more than one of each.

`[-epf profile-path]`

When executing the `-password` command line operation, you must specify an `.epf` profile

using `-epf` followed by the full profile filename and path.

Address Book operations

This section describes the Address Book operations that are part of the Command Line Utility. This includes the ability to create a Personal Address Book (PAB), which should be automatic when adding the first name to the PAB.

Add operations

Adding a recipient list:

`entcmd addressbook [-add] [-list recipientlist-name] [-epf profile-path] [-offline]`

`[-add]`

Indicates address book adding operation.

commands

`[-list recipientlist-name]`
Specifies the recipient list name to be added.

`[-epf profile-path]`
When executing this operation, you must specify an .epf profile using `-epf` followed by the full profile filename and path.

`[-offline]`
Operations are performed in offline mode.

Adding a DN to a recipient list:

`entcmd addressbook [-add] [-list recipientlist-name] [-epf profile-path] [-dn dn] [-offline]`

`[-add]`
Indicate address book adding operation.

`[-list recipientlist-name]`
Specifies the recipient list name.

`[-epf profile-path]`
When executing this operation, you must specify an .epf profile using `-epf` followed by the full profile filename and path.

`[-dn dn]`
When the `-dn` is specified with a domain name, the domain name will be added to the recipient list.

FREQUENCY:

Multiple option identifiers per command line, each of which are followed by a domain name.

`[-offline]`
Operations are performed in offline mode.

commands

Adding a DN from a text file to a recipient list:

```
entcmd addressbook [-add] [-list recipientlist-name] [-epf profile-path] [-file dn-file-path] [-offline]
```

`[-add]`

Indicates address book adding operation.

`[-list recipientlist-name]`

Specifies the recipient list name.

`[-epf profile-path]`

When executing this operation, you must specify an .epf profile using `-epf` followed by the full profile filename and path.

`[-file dn-file-path]`

Domain names will be read from this DN file and will then be added to the recipient list. The dn-file must be a plain text file with each domain name occupying one line.

NOTE:

If `-dn` is also present in the command line, the `-file` will be ignored.

`[-offline]`

Operations are performed in offline mode.

Importing a key file into the address book:

```
entcmd addressbook [-add] [-key keyfile-path] [-epf profile-path] [-offline]
```

commands

`[-add]`

Indicates address book adding operation.

`[-key keyfile-path]`

Key file with extension `.key` will be imported into the PAB.

`[-epf profile-path]`

When executing this operation, you must specify an `.epf` profile using `-epf` followed

by

the full profile filename and path.

`[-offline]`

Operations are performed in offline mode.

Importing a shared recipient list:

`entcmd addressbook [-add] [-shared shared-recipientlist-file] [-epf profile-path] [-offline]`

`[-add]`

Indicates address book adding operation.

`[-shared shared-recipientlist-file]`

Shared recipient list file with `.srl` extension will be imported into address book.

`[-epf profile-path]`

When executing this operation, you must specify an `.epf` profile using `-epf` followed

by

the full profile filename and path.

`[-offline]`

Operations are performed in offline mode.

Replace operations

Replacing all members of a recipient list:

`entcmd addressbook [-replace] [-list recipientlist-name] [-epf profile-path]`

commands

`-path] [-file dn-file]`
`[-offline]`

`[-replace]`
Indicates address book replacing operation.

`[-list recipientlist-name]`
Specifies the recipient list name.

`[-epf profile-path]`
When executing this operation, you must specify an .epf profile using `-epf` followed by the full profile filename and path.

`[-file dn-file-path]`
Any existing members of the recipient list will be replaced by the domain names that are read from the dn-file. The dn-file must be a plain text file with each domain name occupying one line.

`[-offline]`
Operations are performed in offline mode.

Delete operations

Deleting a recipient list:
`entcmd addressbook [-delete] [-list recipientlist-name] [-shared] [-epf profile-path]`
`[-offline]`

`[-delete]`
Indicates address book deleting operation.

`[-list recipientlist-name]`
Specifies the recipient list to be deleted.

commands

`[-shared]`

Shared recipient list with the specified name `-list` will be deleted. Otherwise, regular recipient list specified name will be deleted.

NOTE:

A shared recipient list with the same name as a regular recipient list is allowed to co-exist in the address book.

`[-epf profile-path]`

When executing this operation, you must specify an .epf profile using `-epf` followed by the full profile filename and path.

`[-offline]`

Operations are performed in offline mode.

Deleting a member from a recipient list:

```
entcmd addressbook [-delete] [-list recipientlist-name] [-epf profile-path] [-dn dn] [-offline]
```

`[-delete]`

Indicates address book deleting operation.

`[-list recipientlist-name]`

Specifies the recipient list name from which member(s) are deleted.

NOTE:

Members of a shared recipient list cannot be deleted.

`[-epf profile-path]`

When executing this operation, you must specify an .epf profile using `-epf` followed by the full profile filename and path.

`[-dn dn]`

Specifies which members to delete from the recipient list.

commands

NOTE:

If -dn is not specified, this operation will delete the specified recipient list.

FREQUENCY:

Multiple option identifiers per command line, each of which is followed by a domain name.

`[-offline]`

Operations are performed in offline mode.

Deleting a PAB entry from your personal address book:

`entcmd addressbook [-delete] [-epf profile-path] [-dn dn] [-offline]`

`[-delete]`

Indicates address book deleting operation.

`[-epf profile-path]`

When executing this operation, you must specify an .epf profile using -epf followed by the full profile filename and path.

`[-dn dn]`

Specifies which PAB entries to be deleted from the personal address book.

FREQUENCY:

Multiple option identifiers per command line, each of which is followed by a domain name.

`[-offline]`

Operations are performed in offline mode.

Export operations

commands

Exporting a user's key file:

```
entcmd addressbook [-export] [-directory export-directory] [-epf profile-path] [-offline]
```

`[-export]`

Indicates address book exporting operation.

`[-directory export-directory]`

Specify an existing directory to indicate to which directory the key file is to be exported.

`[-epf profile-path]`

When executing this operation, you must specify an .epf profile using -epf followed by the full profile filename and path.

`[-offline]`

Operations are performed in offline mode.

Exporting a recipient list as a shared recipient list:

```
entcmd addressbook [-export] [-directory export-directory] [-list recipientlist-name] [-epf profile-path] [-offline]
```

`[-export]`

Indicates address book exporting operation.

`[-directory export-directory]`

Specify an existing directory to indicate to which directory the resulting shared recipient list file (.srl) is to be exported.

`[-list recipientlist-name]`

Specifies which list is exported as a shared recipient list. Without specifying -list, this operation becomes exporting user's key file.

commands

`[-epf profile-path]`

When executing this operation, you must specify an .epf profile using `-epf` followed by the full profile filename and path.

`[-offline]`

Operations are performed in offline mode.

List and Search operations

Listing all recipient lists including shared recipient lists:

`entcmd addressbook [-show] [-epf profile-path] [-offline]`

`[-show]`

Indicates address book listing or searching operation.

`[-epf profile-path]`

When executing this operation, you must specify an .epf profile using `-epf` followed by the full profile filename and path.

`[-offline]`

Operations are performed in offline mode.

Listing recipient list members:

`entcmd addressbook [-show] [-list recip-list-name] [-shared] [-epf profile-path] [-offline]`

`[-show]`

Indicates address book listing or searching operation.

`[-list recip-list-name]`

Specifies which recipient list members to display.

`[-shared]`

commands

Shared recipient list members will be displayed. Otherwise, members of the specified regular recipient list will be displayed.

`[-epf profile-path]`

When executing this operation, you must specify an .epf profile using `-epf` followed by the full profile filename and path.

`[-offline]`

Operations are performed in offline mode.

Searching and listing a DN from both PAB and directory based on common name value:

`entcmd addressbook [-show] [-name common-name] [-epf profile-path]`

`[-show]`

Indicates address book listing or searching operation.

`[-name common-name]`

Use the `-name` option to specify the common name value as the search criteria.

Entering

`'*'` as common-name value will return everyone in the addressbook as the search results.

`[-epf profile-path]`

When executing this operation, you must specify an .epf profile using `-epf` followed by

the full profile filename and path.

Searching and listing a DN from PAB only based on common name:

`entcmd addressbook [-show] [-pab] [-name common-name] [-epf profile-path] [-offline]`

`[-show]`

commands

Indicates address book listing or searching operation.

`[-pab]`

Specifies searching entries from the PAB only.

`[-name common-name]`

Specifies the common name value as the search criteria. Entering '*' as common-name value will return everyone in the addressbook as the search results.

`[-epf profile-path]`

When executing this operation, you must specify an .epf profile using -epf followed by the full profile filename and path.

`[-offline]`

Operations are performed in offline mode.

Searching and listing a DN from the directory only based on common name:

```
entcmd addressbook [-show] [-dir] [-name common-name] [-epf profile-path]
```

`[-show]`

Indicates address book listing or searching operation.

`[-dir]`

Specifies search entries from the directory only.

`[-name common-name]`

Specifies the common name value as the search criteria. Entering '*' as common-name value will return everyone in the addressbook as the search results.

`[-epf profile-path]`

commands

When executing this operation, you must specify an .epf profile using -epf followed by the full profile filename and path.

Listing all search bases in the directory:

```
entcmd addressbook [-show] [-searchbase] [-epf profile-path]
```

[-show]

Indicates address book listing or searching operation.

[-searchbase]

Specified to list all search bases from the directory.

[-epf profile-path]

When executing this operation, you must specify an .epf profile using -epf followed by the full profile filename and path.

Customizing the directory search:

```
entcmd addressbook [-show] [-searchforattribute attribute-name] [-searchstring search-for-string] [-base search-base] [-returnattribute attribute-name] [-epf profile-path]
```

[-show]

Indicates address book listing or searching operation.

[-searchforattribute attribute-name]

Specifies which attribute the searching is based on, such as csn or sn. You must provide the -searchforattribute option in the command line to perform this advanced searching operation.

commands

`[-searchstring search-for-string]`

Specifies the search criteria. You must specify the `-searchstring` option in the command line to perform this advanced searching operation.

NOTE:

Entering a '*' in the `search-for-string` refers to the wildcard.

`[-base search-base]`

Specifies which search base the searching is performed on. If `-base` is not provided, directory searching will be performed on all search bases.

`[-returnattribute attribute-name]`

Specifies which attributes should be returned as part of the directory searching results.

NOTE:

DN is always returned from the directory search.

`[-epf profile-path]`

When executing this operation, you must specify an `.epf` profile using `-epf` followed by the full profile filename and path.

(C) 2007 Entrust. All rights reserved.

Published in Canada.

This information is subject to change as Entrust reserves the right, without notice, to make changes to its products, as progress in engineering or manufacturing methods or circumstances may warrant.

Entrust is a registered trademark of Entrust, Inc. in certain countries. All Entrust product names are trademarks of Entrust, Inc. All other product and company names may be trademarks or registered trademarks of their respective owners.

commands

Export and/or import of cryptographic products may be restricted by various regulations in various countries. Licenses may be required.